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1982

Census of Construction Industries

CC82-I-5

INDUSTRY SERIES

General Contractors— Nonresidential Buildings, Other Than Industrial Buildings and Warehouses

Industry 1542



The publications from the 1982 Economic and Agriculture Censuses are dedicated to the memory of Shirley Kallek, Associate Director for Economic Fields. During her career at the Bureau of the Census (1955 to 1983), she continually directed efforts to improve the timeliness and accuracy of economic statistics.

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Issued October 1984



U.S. Department of Commerce

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Clarence J. Brown, Deputy Secretary
Sidney Jones, Under Secretary for
Economic Affairs

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INTRODUCTION

	Page
ECONOMIC CENSUSES OVER TIME	311
USES OF THE ECONOMIC CENSUSES	
AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES	
METHOD OF ACCOUNTING AND TIME COVERED	
CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND	
CLASSIFICATION	IV
ESTABLISHMENT BASIS OF REPORTING	V
SAMPLE DESIGN, ESTIMATION PROCEDURES, AND	
RELIABILITY OF ESTIMATES	V
CENSUS REPORT FORMS	VII
DATA PROCESSING	VII
GEOGRAPHIC CLASSIFICATION	VII
DUPLICATION IN RECEIPTS	VII
SPECIAL TABULATIONS	VIII
RELATIONSHIPS OF THE ECONOMIC CENSUSES TO	
CURRENT SURVEYS	VIII
COMPARABILITY OF CENSUS OF CONSTRUCTION	
INDUSTRIES DATA WITH OTHER DATA	
ABBREVIATIONS AND SYMBOLS	VIII

ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that guinguennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications1 (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972. 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently.

USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

^{&#}x27;Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No.041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

AUTHORITY AND SCOPE OF THE ECONOMIC **CENSUSES**

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

METHOD OF ACCOUNTING AND TIME **COVERED**

For the census report, respondents could use any system of accounting by which they maintained their books. Therefore, reports could be based on cash, accrual, or completion of contract methods of accounting.

A report was supposed to cover the calendar year 1982. If that involved considerable costs, fiscal year reporting was permitted if it did not produce great differences. However, all payroll and employment figures had to be reported for the calendar year.

CENSUS OF CONSTRUCTION INDUSTRIES— SCOPE AND CLASSIFICATION

The 1982 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots as defined in the 1972 Standard Industrial Classification (SIC) Manual. This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

Contract construction - The SIC manual defines construction in three broad types of activity: (1) building construction by general contractors, (2) other construction by general contractors, and (3) construction by special trade contractors.

- 1. Building construction by general contractors-General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other projects of a similar character.
- 2. Other construction by general contractors + Often referred to as heavy construction contractors, these contractors are primarily engaged in the construction of highways, streets, bridges, and tunnels; docks and piers; dams and water projects; sewage collection, treatment, and disposal facilities; storm sewer systems; air fields; and other heavy construction which involves either earth moving or the erection of structures and appurtenances, other than buildings.
- 3. Construction by special trade contractors Special trade contractors are primarily engaged in specialized construction activities such as plumbing, painting, electrical work, carpentry, etc.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

Construction on their own account, for sale-Operative builders are primarily engaged in constructing buildings or other structures on their own account, acting as their own general contractor. These structures are generally sold when completed. Investment builders, primarily engaged in construction on their own account for rent or lease, were not included within the scope of the construction census.

Subdividers and developers, except cemeteries-The SIC manual defines subdividers and developers, except cemeteries, as establishments engaged in subdividing real property into lots, except cemetery lots, and in developing it for resale on their own account or for others.

In this system, each establishment is assigned an industry code on the basis of its major activity.

Each establishment receiving a questionnaire was requested to report the percent of total business receipts for each kind-ofbusiness activity engaged in during 1982. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction receipts to total business receipts was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities, but in only a few instances do the SIC industry categories take into consideration combinations of activities. An example is SIC 1711, which includes establishments primarily engaged in plumbing, heating, air conditioning, ventilation, and refrigeration work. It is necessary, however, to assign a single industry code to the establishment based on its major activity.

Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities.

The structure of the Standard Industrial Classification System makes it possible to classify or tabulate establishments by major group (two-digit), industry group (three-digit), or industry (four-digit) according to the degree of detail available and needed.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business which has been established for the management of more than a single project or job and is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to, estimating, bidding, scheduling, purchasing, supervising, and operating the actual construction work being conducted at one or more construction sites.

Exceptions to the "relatively permanent office" rule were that: (1) in case of joint ventures, a separate establishment report was required covering the joint venture entity even though established to undertake only a single project; and (2) to the extent that separate legal entities were set up to carry out only a given project or part of a project, then a separate establishment report was also required for each legal entity.

To the extent that several companies shared or operated out of a single office or place of business, each such legal entity engaged in construction was considered a separate establishment and each was requested to file the necessary "establishment" report covering the activities it conducted in or from that common office.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1982.

Separate construction reports were not required for each project or construction site. Aggregated information was included in the report of the construction establishment responsible for the work of the construction projects and sites.

If an establishment engaged in two or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, construction, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate etimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1982 gross receipts from construction activities exceeded the gross receipts from each of its other activities.

An establishment is not necessarily identical with a "company" or "enterprise," which may consist of one or more establishments. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

Construction businesses with no payroll during 1982 (nonemployers) were not required to file census reports. Collection and tabulation of data for these businesses are described in the section on "Sample Design." Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND **RELIABILITY OF ESTIMATES**

The firms included in the 1982 Census of Construction Industries were identified as part of an operation common to all 1982 Economic Censuses. Construction firms were divided into employers (firms with payroll) and nonemployers (firms without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government based on information supplied directly to the agencies.

Employer Firms

Developing the sampling frame for employer firms-This operation started with obtaining a list of all construction firms in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of firms engaged in business activities in the United States. The file contains the name, address, and form of ownerhship of each firm and also indicates whether or not the firm is subject to the Federal Insurance Contributions Act. Each firm in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each firm. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrativerecord data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer firms. However, for the 1982 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those firms which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment firms and large single-establishment firms. Thus, the 1982 Economic Census list for single-establishment employer firms was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a firm to the proper economic census, but there were a number of firms for which this information was inadequate or unavailable. A special form, NC-9923, General Report, was mailed to all such firms, requesting information on the nature of the firm's activities. From the information reported, the firm was given an industrial classification code and assigned to the appropriate economic census. Since construction firms found in this way were identified as such, only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

For 1982, some data will be published for Standard Consolidated Statistical Areas (SCSA's) and selected Standard Metropolitan Statistical Areas (SMSA's). Therefore, each establishment was assigned to an SMSA code or to the balance of a State. The balance of the State was considered to be a separate cell for the selection process. In States where none of the SMSA's had more than 500,000 inhabitants in the 1970 Decennial Census, all establishments were assigned to the balance of the State.

Selecting the employer sample - A construction universe of about 464,000 single establishment employer firms and 6,500 multiestablishment employers, accounting for another 13,000 construction establishments, was developed by the procedures described above. From this universe, a sample of 172,000 employer establishments was selected. This sample was generally organized by standard industrial classification (SIC) in State sequence. The sample was designed to provide publishable estimates for the most construction industries at the State and selected SMSA level. It consisted of all construction establishments in multiestabishment companies, all singleestablishment companies with the payroll equivalent of 20 employees or more, and a sample of single-establishment companies with less than 20 employees. There were three SIC's for which this standard plan was not used: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

The number of establishments classified in each of these three industries is very small and consequently, all single-unit establishments in these three industries were included in the sample. For sampling purposes, the number of employees was estimated from the 1981 payroll data in the administrative records, using an industry average wage per employee. The sampling was accomplished using a systematic method within each four-digit SIC. If the SIC code for an establishment was not complete, it was sampled as part of a two-digit group (e.g., 1520 was sampled as 1500, 1620 as part of 1600) except for non-classifiable cases in two-digit group 17. These were sampled as part of 1799 which is Special Trade Contractors, Not Elsewhere Classified. For the establishments with less than 20 employees, the sample was selected by sorting the establishments into State by SMSA by SIC by payroll sequences, and drawing a systematic sample of at least two establishments within each cell, with the probability of selection being proportional to the 1981 payroll. If the State-SMSA-SIC cell had two or less establishments in the frame, all establishments were selected (a 100-percent sample). A 100-percent sample was taken of the construction firms identified from the NC-9923, General Report, and of the transfers from other census trade areas. These latter cases were identified during the processing stages. These were caused either by changes of activity in the firm since the last updating of the classification file, or errors in the mailout classification. These cases were all added to the construction census, with certainty.

Estimation procedures for 1982 and 1977 data-Since all larger employer firms and some smaller ones were included in the census, sample estimation was required only for the universe of firms not selected with certainty. The published statistics are the totals of the estimates for the sampled firms and the

aggregates for the certainty (larger) firms. All estimates for 1982 and 1977 published here are simple unbiased estimates of the form:

$$x'_{c} = \sum_{i=1}^{n_{c}} x_{i}/p_{i}$$

where: x'_{c} is the simple unbiased estimate of a characteristic for a publication cell.

> is the reported value of a characteristic for an individual establishment in the publication cell.

is the selection probability of that firm.

n c is the number of firms in the sample for the cell.

This method of estimation was used for all 1982 and 1977 characteristics. Before this formula was applied, it was necessary to convert into dollars those distributions of construction receipts which had been reported by the establishments as percentages construction receipts by type of project, location of project, etc.

Reliability of employer statistics-Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimates directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Although relative standard errors have been calculated for all of the published statistics, they are shown for each statistic only in the tables presenting detailed statistics. The other tables show relative standard errors only for some characteristics because of lack of space.

Separate measures of reporting and processing errors are not available. However, estimates which were subject to large errors of these types are likely to have been detected and corrected, or withheld from publication in the process of the review of the data for reasonableness and consistency. Other specific qualifications of the published data are indicated in footnotes to the tables.

The statistics in this report were based on data received by the time of final publication. Data were imputed for establishments that did not report by that date. Selected establishments were contacted again to obtain as much information on the telephone as possible. Late data received in early 1984 were substituted for imputed data when the difference between the two was significant. Some publication cells in which more than 50 percent of the data were imputed have been suppressed.

Nonemployer Firms

General—As described earlier, the information derived from the business income tax returns of all firms was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with firms without payroll were treated as nonemployers. The nonemployer construction firms were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts" was based on receipts information reported on the tax return. In 1982, this group accounted for 60 percent of the total number of construction establishments, but accounted for only 8 percent of all business receipts of all construction establishments.

Qualifications to the nonemployer data—Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1982 Census of Construction Industries was obtained from employer establishments primarily through the use of eight questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the three two-digit SIC groups (15, 16, and 17), and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted most of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were solicited from construction trade associations and appropriate advisory groups. The Census Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1982 census report forms were mailed out in December 1982. Collection of these report forms, also by mail, was essentially completed in July 1983. They were mailed from and

returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters in Washington, D.C.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding) and imputation for missing items or for the small number of reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1982 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. Separate State codes were assigned based on this information.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected SCSA's and SMSA's.

DUPLICATION IN RECEIPTS

The aggregate of construction receipts reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work (and the receipts) of one firm may be subcontracted to other construction firms and also be included in the subcontractors' receipts. To avoid this duplication, a "net construction receipts" figure has been derived for each establishment by subtracting the payments made for construction work subcontracted to others from the total construction receipts.

Duplication in receipts between other construction and nonconstruction industries results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is defined in the 1982 Census of Construction Industries as equal to all business receipts less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, value added is defined as equal to all business receipts less land receipts, payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1982 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies), as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, D.C., 20233.

To discuss a special tabulation before submitting specifications, call 301-763-5435.

RELATIONSHIPS OF THE ECONOMIC CENSUSES TO CURRENT SURVEYS

The Census Bureau also conducts current surveys (monthly, quarterly, and annually) to keep abreast of the rapid changes in business conditions, new processes, new materials, and shifting demands of goods and services. The census universe provides the sampling frame, weights, and benchmarks on which some of these current surveys are based. The accuracy of the measures derived from these current surveys is directly related to the completeness of information provided in the censuses.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1982 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas, the construction census figures cover both new construction and

maintenance and repair work, but only for establishments classified in the construction industry. Force account construction activity—construction work performed by the labor force of a nonconstruction company for itself, or by other entities (Federal, State, or local governments) for themselves, or by property owners for themselves—probably accounts for more than half of the difference in the data of the two series of reports. Other factors contributing to the difference are that the census data do not include: (1) the value of materials supplied by the owners of projects, (2) the value of separate architectural and engineering services and, to a lesser extent, (3) the value of construction work performed for others by firms outside the scope of construction (manufacturers who install, lumber yards and other businesses, etc.).

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology. Their effect is not fully known.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

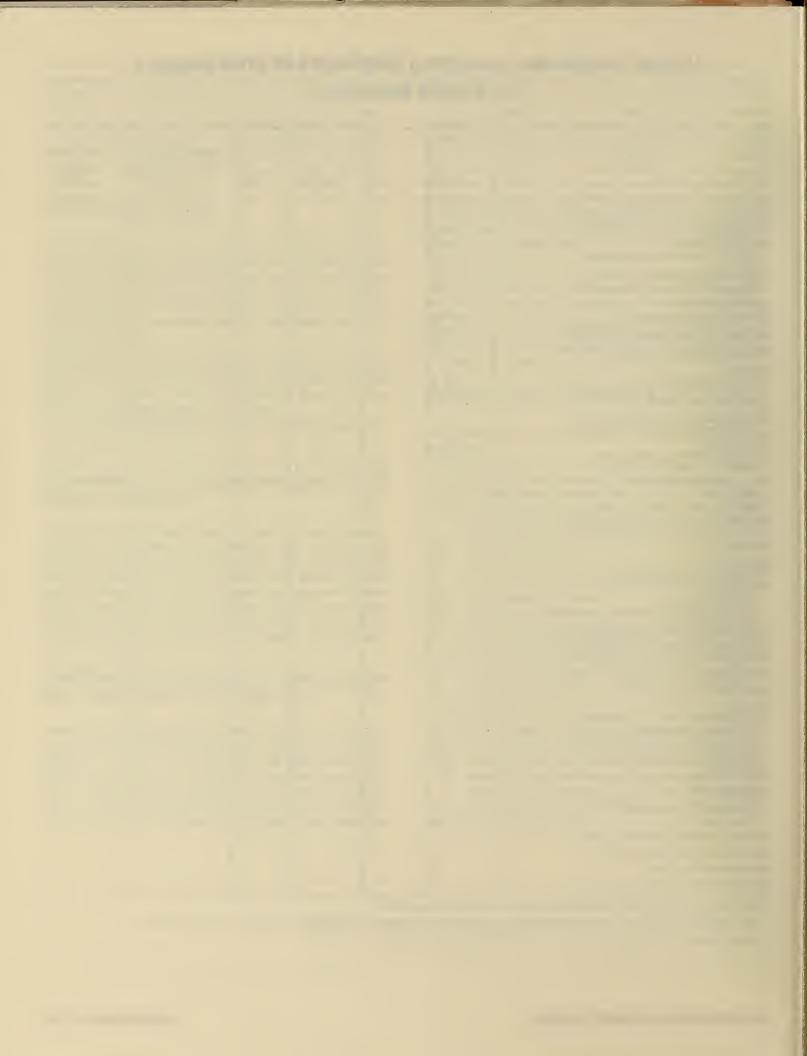
- * Sampling error exceeds 40 percent.
- ** All employees (average) is the sum of constituction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others. (See Duplication in Receipts.)
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts." (See Duplication in Receipts.)
- **+** Possible duplication in data. (See Duplication in Receipts.)
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- n.s.k. Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

Statistics	For U.S.	By State	By employ- ment size	By receipts size	By type, class, ownership, kind of business, and location of construction ¹	By specialization in types of construction
Assets and depreciation (gross book value): Beginning of year—structures, machinery and equipment End of year—total End of year—structures, machinery and equipment Depreciation charges during the year— structures, machinery and equipment	3 1, 3 3 3	1	5	6		
Capital expenditures: Total capital expenditures New structures—machinery and equipment Used structures—machinery and equipment	1, 3 3 3	1	5	6		
Communication services, payments for	2					
Employees: All employees—average number Construction workers—average number Other employees—March	1, 2 1, 2, 9 2	1	5	6		8
Employer costs for fringe benefits—legally required and voluntary expenditures	2					
Establishments: Number in business at end of year Number in business during the year	2 1, 2, 4, 9	1, 9	5	6		8
Hours—construction workers: Total	1, 2, 9 2, 9	1, 9 9	5	6		
Inventories	4					
Materials, components, supplies, and fuels— payments for	1, 2	1	5	6		
Payroll: First quarter, all employees. Annual: All employees Construction workers Other employees.	1, 2		5	6		8
Power, fuels, and lubricants—payments for	2					
Profile of the industry—selected industry averages						
Proprietors and working partners	13	13				
Receipts: All business receipts Construction receipts, total	1, 2, 4		5 5	6	11 2, 7, 10	8
For work subcontracted in from others Other business receipts and land receipts ² Net construction receipts	2		5	6	2, 7, 10	8
Value added	1, 2	i	5	6		8
Rental payments: Total	1, 2 2 2		5	6		
Repairs to structures and related facilities	2					
Repairs to machinery and equipment		1				
Storage capacity for fuels ³	2					
Subcontract work to others, payments for	1, 2	1	5	6		8

Note: Data for 1977 and earlier years are also available in some of these tables.

¹Type—buildings, roads, etc. Class—new construction or maintenance and repair work. Ownership—private or government owned.
²Other business receipts and land receipts are shown separately for SIC's 1531 and 6552 only.
³Storage capacity for fuels shown only for SIC's 1611, 1622, 1623, and 1629.



General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses

CONTENTS

[Page numbers listed here omit the prefix that appears as part of the number of each page]

		Page
User	duction	II IX 3
TAI	BLES	
Stat	istics for Establishments With Payroll	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	General Statistics by State: 1982 and 1977 Detailed Statistics: 1982 and Earlier Census Years Assets, Capital Expenditures, and Depreciation: 1982 and Earlier Census Years Value of Inventories: 1982 and 1981 Selected Statistics by Employment Size Class: 1982 and 1977 Selected Statistics by Receipts Size Class: 1982 and 1977 Construction Receipts by Type of Construction: 1982 and 1977 Selected Statistics by Specialization in Types of Construction: 1982 Quarterly Construction Worker Hours and Employment by State: 1982 Construction Receipts by Location of Construction Work: 1982 and 1977 All Business Receipts by Kind of Business Activity: 1982 and 1977 Profile of Establishments in This Industry: 1982 and Earlier Census Years Selected Industry Ratios by State: 1982	4 6 7 8 8 9 10 10 12 14 15 16
	PENDIXES	
A. B. C.	Explanation of Terms	B-1
Publ	ication Program Inside back of	cover



SUMMARY OF FINDINGS

Establishments classified in this industry are primarily engaged in the construction of commercial, institutional, religious, and amusement and recreational buildings (including new work, additions, alterations, remodeling, and repair). For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual and its 1977 supplement.1

During 1982, there were 22,112 establishments with payroll classified in this industry.2 All business receipts of these establishments amounted to \$52.8 billion, of which \$52.3 billion were receipts for construction work. Their payments for construction work subcontracted to others amounted to \$30.8 billion, leaving net construction receipts of about \$21.5 billion. Value added for 1982 was \$12.5 billion. (See Introduction and appendixes for explanation of terms.)

The establishments in this industry made payments of \$9.2 billion for materials, components, and supplies purchased for use in construction work for others, purchased and subsequently provided to subcontractors for their use, purchased and then resold to others, and purchased and used in construction work for their own account. However, materials furnished to contractors by owners of projects are, of course, not included. Payments of \$333 million were also made for selected power, fuels, and lubricants purchased during the year from other companies or received from other establishments of the parent company.

Establishments with 10 employees or more, while representing only 35 percent of the total number of employer establishments in this industry, accounted for 90 percent of all business receipts.

Total average employment in the industry showed an increase of 15 percent from 1977 to a total of 360 thousand employees. Total payroll for 1982 amounted to \$7.3 billion. Hours worked by construction workers during the first quarter of 1982 were 106 million hours, while hours worked during the third quarter were 133 million hours.

Payments of \$1.3 billion for employer costs for fringe benefits (not included in payroll) represent expenditures during the year for legally required and voluntary fringe benefit programs for employees-such as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll in all of the construction industries are based on a probability sample consisting of about 172,000 construction establishments. The estimates for this particular industry are based on a sample of about 12,200 establishments.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for an industry reflect not only the primary construction activities of the establishments in the industry, but also their secondary construction activities and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or inflation between 1977 and 1982.

Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

²Limited data for establishments in this industry without payroll (nonemployers) will be included in the U.S. industry summary report to be published after the individual industry reports have been issued.

Table 1. General Statistics for Establishments With Payroll by State: 1982 and 1977

					1982			
		Emplo	yees**	Pay	yroll			
Location of establishment	Number of establishments	All	Construction workers	All employees	Construction workers	Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
	Α	В	С	D	Е	F	G	н
United States	22 112	3 59 856	278 193	7 260 046	5 084 654	468 984	52 304 554	21 546 587
AlabamaAlaskaArizonaArkansasCalifornia	294	8 213	6 580	127 833	89 683	11 333	929 748	398 511
	117	2 123	1 679	55 624	43 860	3 620	358 099	185 036
	331	4 585	3 344	87 671	55 468	4 729	807 915	316 341
	166	2 788	2 373	40 106	32 943	3 938	327 487	184 341
	2 547	33 540	24 658	864 735	577 772	47 801	6 760 452	2 180 227
Colorado	435	9 420	7 140	202 070	148 284	11 827	1 693 334	714 354
	306	5 206	4 120	111 517	85 177	7 614	697 020	290 188
	55	674	502	12 327	8 489	844	98 753	37 021
	37	1 692	1 369	36 612	23 125	2 064	277 256	93 446
	1 224	20 683	16 333	340 649	231 835	27 965	2 501 439	1 093 518
Georgia Hawaii Idaho Illinois Indiana	537	10 999	8 546	173 558	114 958	13 427	1 295 132	573 810
	124	2 060	1 452	52 748	35 072	2 425	348 506	150 352
	129	1 265	938	23 176	16 355	1 362	194 028	101 451
	855	12 706	9 648	304 222	214 335	15 037	1 868 686	784 324
	517	6 689	5 125	131 043	94 564	8 396	708 621	355 352
lowaKansasKentucky	435	4 966	3 733	91 568	61 646	6 306	535 071	308 322
	251	4 488	3 662	83 365	61 013	6 776	548 304	287 894
	300	3 656	2 967	60 992	43 371	4 642	367 549	187 525
	431	8 489	6 860	155 864	113 532	12 091	1 042 669	456 993
	98	1 180	982	16 459	11 628	1 784	109 276	62 741
Maryland	385	8 099	5 954	165 199	105 897	10 007	1 278 736	501 544
	513	8 388	6 174	190 347	137 190	10 214	1 546 249	568 051
	652	6 466	4 758	141 613	94 133	8 298	1 071 083	411 743
	405	7 096	5 596	165 129	123 992	9 900	1 085 905	532 839
	184	2 304	1 832	29 029	20 275	2 808	190 297	105 893
Missouri	491 137 260 145	9 337 1 296 3 524 1 324 1 786	6 912 1 049 2 744 1 003 1 456	183 803 19 305 55 084 31 668 29 957	120 661 14 340 39 513 23 053 20 956	9 639 1 286 4 237 1 388 2 481	1 278 858 119 246 316 224 273 532 182 685	500 849 69 797 193 982 104 046 86 827
New Jersey New Mexico New York North Carolina North Dakota	587	8 642	6 653	165 026	114 643	10 326	1 132 935	451 835
	242	4 024	3 160	76 284	58 419	5 225	338 223	181 829
	1 257	18 474	13 688	414 195	285 152	22 243	3 064 162	1 265 365
	430	8 041	6 439	114 226	75 599	11 368	842 179	416 074
	152	1 617	1 360	28 759	22 625	2 280	162 900	94 977
OhioOklahomaOregon	905	11 827	8 817	251 112	177 705	14 553	1 628 658	632 443
	387	7 156	5 783	129 911	92 094	9 623	893 096	418 291
	353	3 578	2 664	88 792	61 457	3 862	629 169	235 944
	817	12 956	9 968	263 607	185 142	16 719	1 843 063	761 643
	72	1 786	925	44 595	19 484	1 678	543 642	107 764
South Carolina South Dakota Tennessee Texas Utah	196	4 317	3 531	62 574	43 730	6 377	373 758	182 439
	146	1 147	969	16 217	12 413	1 562	104 849	73 972
	349	7 869	6 293	136 169	94 797	11 211	1 172 918	451 556
	1 724	43 654	35 451	861 694	636 722	59 809	6 976 456	2 648 746
	176	2 664	2 150	52 641	37 752	3 590	448 775	200 172
Vermont Virginia Washington Wast Virginia Wisconsin Wyoming	67	526	393	6 470	4 333	710	34 353	21 719
	446	7 291	5 822	122 936	84 866	10 325	886 046	400 222
	618	9 283	7 020	242 141	176 983	10 840	1 440 864	644 869
	155	1 604	1 297	27 082	20 690	2 113	127 872	75 981
	463	6 894	5 068	145 883	96 401	8 365	648 965	351 867
	90	1 451	1 239	26 446	20 511	1 942	199 498	91 550

					1977				-Con.	1982-		
Locatio of establis ment	Relative standard error of estimate (percent) for column—		error (pe	Value added††	Total construction receipts	All employees**	End-of-year gross book value of depreciable assets	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures	Payments for construction work sub- contracted to others	Payments for materials, components, supplies, and fuels	Value added††
A	М	Н	В	Q	Р	0	N	М	L	К	J	I
n u	(W)	(W)	(W)	7 112 256	27 137 768	311 568	4 213 927	474 605	382 584	30 757 966	9 554 518	12 512 366
Ala. Alaska Ariz. Ark. Calif.	2 3 2 2 1	2 2 2 3 (W)	2 4 2 5 1	133 264 46 858 135 354 51 267 672 968	591 198 121 088 455 765 246 883 2 907 553	7 644 815 3 972 3 244 22 486	70 236 35 882 43 372 37 305 466 859	5 963 3 264 7 872 2 783 48 025	4 280 3 939 5 281 2 014 58 623	531 237 173 063 491 574 143 146 4 580 225	231 932 80 565 111 908 78 344 904 335	171 836 127 309 209 459 107 266 1 324 401
2 Del.	1 5 2 (W)	1 2 9 1 1	1 2 12 1 1	199 598 51 632 15 344 45 473 184 105	672 742 281 696 51 468 181 614 817 757	6 596 3 203 776 1 529 10 827	77 586 57 890 9 002 16 121 159 319	9 511 5 500 998 379 16 987	10 945 6 127 903 2 138 15 227	978 979 406 831 61 732 183 810 1 407 921	302 610 104 989 15 606 (D) 513 612	420 423 185 836 22 270 98 976 600 529
) Hawaii - Idaho	3 (W) - 4 5	2 1 5 1 2	2 3 9 1 2	150 160 94 880 29 786 374 814 173 501	608 730 286 729 106 262 1 390 344 623 461	8 665 2 915 1 286 14 576 8 053	85 536 41 243 96 244 142 162 77 678	6 888 5 292 (D) 12 065 6 597	8 743 4 054 1 200 10 599 4 708	721 321 198 154 92 577 1 084 362 353 269	291 818 61 934 (D) 280 822 155 243	298 130 93 189 76 068 517 785 226 352
5 Kans.	5 5 7 2 5	3 2 4 2 9	3 2 4 2 8	111 338 100 939 87 995 149 036 21 521	356 884 366 680 345 886 535 776 71 327	5 607 4 576 4 510 8 421 1 179	82 040 54 298 36 732 72 031 14 094	5 696 7 102 3 133 10 170 1 616	2 929 3 760 2 601 8 790 623	226 749 260 410 180 024 585 675 46 535	165 912 148 099 80 884 231 285 32 799	153 354 141 670 108 510 229 474 30 998
4 Mass. 2 Mich. - Minn.	(W) 4 2 - 8	1 2 2 1 4	2 2 2 2 6	241 939 139 899 189 491 125 679 55 998	887 028 539 063 787 473 649 586 177 702	8 144 6 056 7 576 7 811 3 338	159 511 145 833 79 219 168 864 25 409	43 638 8 793 7 430 (D) 1 836	6 978 12 315 5 695 8 183 1 050	777 192 978 198 659 340 553 066 84 404	190 385 244 299 147 671 191 775 58 128	318 516 326 817 272 815 367 660 48 596
0 Mont. 0 Nebr. 7 Nev.	2 10 20 7 3	1 7 5 2 4	1 10 6 5 5	205 308 35 371 81 099 27 169 33 685	709 434 115 620 244 936 104 054 118 427	7 274 1 499 3 525 915 1 850	113 934 14 960 45 675 15 998 19 921	10 346 1 871 5 179 1 734 1 647	4 498 1 220 2 761 3 301 1 469	778 009 49 449 122 241 169 486 95 858	220 146 33 596 104 226 34 567 42 269	288 269 37 941 92 858 71 238 47 776
1 N.Y. 2 N.C.	2 2 1 2 8	2 2 1 2 4	2 3 1 2 6	145 316 58 706 465 315 167 751 30 894	509 474 176 229 1 732 481 552 211 102 638	6 419 3 104 16 280 9 582 1 657	90 269 100 010 262 946 67 075 18 475	11 240 7 767 14 983 7 017 1 282	8 252 1 919 24 050 5 448 941	681 100 156 394 1 798 797 426 105 67 923	169 681 (D) 486 398 204 542 51 429	297 175 129 901 790 666 217 217 44 387
1 Orea.	2 4 1 3 3	1 2 2 1 3	1 3 3 1 3	314 436 102 679 84 892 317 257 33 963	1 337 424 368 559 299 791 1 211 101 106 883	13 618 4 269 3 287 14 585 1 123	187 409 77 498 45 236 159 227 14 292	12 531 7 177 3 320 14 408 1 805	10 202 4 635 6 738 8 967 5 739	996 214 474 804 393 225 1 081 419 435 878	273 388 170 533 100 934 277 649 19 834	372 634 252 851 139 180 498 764 89 101
2 Tenn. 1 Tex.	10 5 2 1 6	3 10 2 (W) 2	4 9 2 (W) 2	71 701 27 770 132 977 527 150 48 527	275 844 90 782 600 473 2 212 477 232 429	4 230 1 432 7 575 26 617 2 365	34 603 17 093 70 188 319 618 28 954	3 583 1 285 8 061 39 548 3 160	2 336 638 10 291 58 818 2 433	191 319 30 876 721 362 4 327 710 248 603	92 846 47 137 235 014 1 406 537 93 867	109 030 29 389 220 789 1 276 397 110 969
4 Va. 2 Wash. 5 W. Va. 2 Wis.	31 4 2 16 2 4	16 2 1 5 2 2	14 2 1 6 2 4	9 547 152 135 205 515 26 010 195 292 28 962	28 490 577 267 656 927 71 814 559 578 81 739	495 8 229 7 389 1 650 7 720 1 097	3 045 60 726 96 554 15 512 86 685 13 738	424 6 877 10 188 1 180 7 069 1 909	370 5 012 14 461 1 218 3 644 1 502	12 634 485 824 795 994 51 891 297 098 107 948	8 721 170 215 305 899 30 533 154 989 32 137	13 082 234 491 344 806 49 672 214 858 60 665

Table 2. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years

		, , , , , , , , , , , , , , , , , , , ,		по, ото прропа				
Item							ndard er (percer	
	1982	1977	1972	1967	1982	1977	1972	1967
Number of establishments in business during year	22 112	18 467	25 658	22 358	1	1	2	2
Number of establishments in business at end of year	21 645	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Proprietors and working partners	4 682	7 481	13 027	14 240	3	3	3	3
All employees**	359 856	311 588	395 059	385 256	(w)	(W)	1	1
Construction workers:								
March	262 170 277 805	224 057 251 907	292 522 322 614	297 729 329 334 367 762	(8) (8)	(W)	1	1
August	294 283 269 370 278 193	278 415 262 203 254 360	364 165 338 932 332 741	367 762 339 159 333 709	(8) (8)	3333	1	
Other employees:	2,0 ,00	201 000	332 741	000 700	(",	(**,		
March	81 416	55 820	60 424	48 155	1	(W)	1	1
Construction worker hours (thousands): January to March	105 788	(NA)	(NA)	(NA)		(NA)	(NA)	(NA)
January to March April to June July to September	116 316 133 289	(NA) (NA)	(NA) (NA)	(NA)	(W)	(NA)	(NA)	(NA)
October to December Total hours worked	113 589 468 984	(NA) (NA)	(NA) (NA)	(NA) (NA) (NA)	\$8888	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)
Payroli, ali employees	7 260 046	4 274 933	3 991 172	2 638 209	(٧)	(W)	1	1
Payroll, construction workers	5 084 654 2 175 392	3 189 805 1 085 128	3 147 519 843 653	2 137 389 500 010	(8)	(W)	1 1	1
First quarter payroll, all employees	1 677 757	888 523	(NA)	(NA)	(W)	(W)	(NA)	(NA)
Employer costs for fringe benefits	1 348 806 991 426	863 668 483 485	(NA) (NA)	(NA)	(W)	(W)	(NA)	(NA)
Voluntary expenditures	357 379	380 183	(NA) (NA)	(NA) (NA)	(%)	(X) (X)	(NA) (NA) (NA)	(NA) (NA) (NA)
All business receipts Total construction receipts	52 824 851 52 304 554	27 400 418 27 137 768	24 034 963 23 789 051	15 673 675 15 491 101	(W) (W)	(W) (W)	1	1
Total construction receipts Receipts for work subcontracted in from others Land receipts¹ Other business receipts	1 101 307 (NA)	422 085 (NA)	372 407 (NA)	282 271 (NA)	(NA)	(NA)	(NA)	12 (NA)
Other business receipts	520 297	262 649	245 912	178 898	1	Ž	ž	2
Net construction receipts†	21 546 587	12 816 028	11 141 896	7 383 963	(W)	(W)	1	1
Value added††	12 512 366	7 112 256	6 500 530	4 174 004	(W)	(W)	1	1
Selected payments Materials, components, and supplies2	40 312 485 9 221 961	20 288 148 5 716 533	17 534 433 4 887 278	11 479 066 3 378 499 8 101 093	(X) (X) (X)	\$388	1	1
Construction work subcontracted to othersSelected power, fuels, and lubricants	30 757 966 332 557	14 321 740 249 875	12 647 155 (NA)	(NA)	(W)	(W)	(NA)	(NA)
	76 137 19 329	54 786 26 461	(NA) (NA)	(NA) (NA)	1	1	(NA)	(NA)
Gasoline and diesel fuel (including gasohol)	213 704 23 385	126 433 42 197	(NA) (NA)	(NA) (NA)	1	1	(2,0,0,0) (2,0,0,0,0,0) (2,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	(NA) (NA) (NA) (NA) (NA)
Storage capacity for fuels³ (thousand gallons)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures	382 584	186 287	(NA) 165 973	(NA)	1	(W)	(NA)	(NA)
For machinery and equipment	291 640 90 943	149 013 37 274	165 973 (NA)	96 `058 (NA)	(W) 1	(W) (W)	(NA)	(NA)
Selected purchased services Communication services	277 681 117 359	191 570 75 391	(NA) (NA)	(NA) (NA)	1	1 2	(NA)	(NA)
Repairs to structures and related facilities	22 018 138 303	16 060 100 120	(NA) (NA)	(NA) (NA)	1	1 2 3 1	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)
Ownership of construction projects: Total construction receipts	50.001.551	07.467.75	00 700 07	45 46 42		0.0		
Government owned Privately owned	52 304 554 10 016 229	27 137 768 8 425 879	23 789 051 8 856 075	15 491 101 (NA)	(W)	888	1	(NA) (NA)
rivately Owned	42 288 325	18 711 890	14 932 976	(NA)	(W)	(VV)	1	(NA)

¹Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

²For 1967 and 1972, includes data for power, fuels, and lubricants.

³Data were collected only for establishments classified as heavy construction contractors.

Table 3. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years

Îtem						ive stan		
	1982	1977	1972	1967	1982	1977	1972	196
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets	474 605 390 782 83 822	(NA) 326 150 277 009 49 141 (NA)	(NA) 223 278 189 910 33 368 (NA)	(NA) 151 066 127 162 23 904 (NA)	1 1 1 2 4	(NA) 2 2 4 (NA)	(NA) 2 2 3 (NA)	(NA
End-of-year gross book value of depreciable assets	4 213 927	2 039 598	1 479 528	(NA)	(W)	1	1	(NA
Depreciation charges during year	443 106	175 344	136 282	(NA)	1	1	2	(NA
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets	182 222 160 388	(NA) 98 231 87 163 11 068 (NA)	(NA) 72 053 60 228 11 825 (NA)	(NA) 63 652 55 367 8 285 (NA)	1 1 1 4 3	(NA) 10 7 14 (NA)	(NA) 4 6 3 (NA)	(NA
End-of-year gross book value of depreciable assets	1 079 732	662 854	463 192	(NA)	1	2	2	(N/
Depreciation charges during year	74 620	28 917	21 856	(NA)	1	3 .	3	(N/
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets	292 383	(NA) 227 920 189 847 89 060 38 073 (NA)	(NA) 151 225 129 682 (NA) 21 543 (NA)	(NA) 87 414 71 795 (NA) 15 619 (NA)	1 1 1 2 2 5	(NA) 1 1 1 2 (NA)	(NA) 2 1 (NA) 3 (NA)	(NA (NA
End-of-year gross book value of depreciable assets	3 134 130	1 376 744	1 016 336	(NA)	1	1	1	(NA
Depreciation charges during year	368 486	146 427	114 426	(NA)	1	1	2	l (N/

Table 4. Value of Inventories for Establishments With Payroll: 1982 and 1981

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

ltem	Establishments with payroll	Relative standard error of estimate (percent)
All establishments: Number	22 112 52 304 554	1 (W)
Establishments with inventories: Number Total construction receipts	3 784 10 627 076 203 359 4 821 1 460 198 538	5 1 3 9 21 4
End of 1981, total Value for establishments with LIFO reserve Amount of LIFO reserve Value for establishments with no LIFO reserve	195 806 7 974 1 987 187 832	4 4 14 4
Establishments with no inventories: Number	18 328 41 677 478	(W)

^{*}Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 5. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977

					Establishm	ents with an	average of-			
Selected statistics	Total	1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1982										
Number of establishments All employees** Payroli, all employees Construction worker hours (thousands) All business receipts. Total construction receipts Net construction receipts†	22 112 359 856 7 260 046 468 984 52 824 851 52 304 554 21 546 587	9 547 20 541 261 603 32 733 1 895 797 1 878 771 1 013 664	4 867 32 697 505 940 36 081 3 168 644 3 135 404 1 706 771	3 766 51 389 907 953 60 271 5 695 440 5 646 576 2 852 090	2 639 80 471 1 622 119 103 993 10 922 670 10 834 405 4 899 014	77 088 9 135 628 9 033 166	71 312 9 344 689	6 547 713	30 20 081 521 208 29 074 6 053 934 4 232 897 1 495 934	10 12 683 251 444 13 49- 1 771 04- 430 90
Value added†† Payments for materials, components, supplies, and fuels Payments for construction work subcontracted to others Rental payments for machinery, equipment, and structures Capital expenditures, other than land End-of-year gross book value of depreciable assets	12 512 366 9 554 518 30 757 966 382 584 474 605 4 213 927	557 577 473 113 865 106 16 696 24 614 295 494	1 010 968 729 043 1 428 633 27 835 31 653 360 613	1 192 819	2 107 062	2 167 868 1 541 506 5 426 254 66 040 104 318 645 392	1 530 024	1 296 054 1 074 421 4 237 573 42 547 69 790 458 879	1 070 303 622 644 2 736 963 28 674 14 710 167 664	283 88 1 340 14 15 29 15 77 183 70
All employees**	311 588 27 137 768 7 112 256	16 094 1 153 481 297 847	27 214 1 847 415 525 384	45 392 3 398 130 977 014	79 669 6 808 891 1 931 968	53 972 4 791 876 1 260 456	36 241 3 806 531 872 435	33 451 3 471 847 769 799	10 008 1 007 866 213 651	9 54 851 73 263 70
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT) All employees** Net construction receipts† Capital expenditures, other than land	(W) (W)	2 2 7	2 3 5	2 2 4	(W) 1	(W) (W) (W)	(W) (W) (W)	(W) (W) (W)	(W) (W) (W)	(M) (M) (M)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 6. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

					Establish	ments with a	Il business re	ceipts of-			
Selected statistics	Total	Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1982											
Number of establishments All employees** Payroll, all employees Construction worker hours (thousands) All business receipts Total construction receipts Net construction receipts†	22 112 359 856 7 260 046 468 984 52 824 851 52 304 554 21 546 587	1 297 1 517 4 512 1 161 17 191 17 164 10 752	1 169 1 892 10 000 1 664 43 264 42 938 28 608	1 912 4 514 36 272 4 378 138 855 137 451 91 927	3 897 13 743 147 926 24 337 655 945 648 167 445 178	3 581 20 541 266 925 22 231 1 279 693 1 264 287 805 353	2 438 234	3 311 51 669 926 928 63 800 5 221 574 5 166 385 2 826 947	5 677 444	961 45 704 977 687 61 886 6 754 707 6 696 202 2 965 334	934 141 495 3 468 835 192 745 30 525 059 30 216 279 10 152 807
Value added††Payments for materials, components, supplies,	12 512 366	5 957	15 959	51 696	247 039	457 822	806 547	1 644 771	1 673 661	1 752 178	5 856 734
and fuels Payments for construction work subcontracted to others	9 554 518	4 821 6 412	12 974 14 330	41 635 45 524	205 916 202 989	362 936 458 933	653 322	1 237 364	1 159 031	1 271 661 3 730 868	4 604 853
Rental payments for machinery, equipment, and structures Capital expenditures, other than land End-of-year gross book value of depreciable	382 584 474 605	263 99	558 468	1 336 2 535	6 355 9 564	13 025 17 550	23 288 33 000	42 682 50 586	42 450 49 437	49 765 52 990	202 859 258 374
assets	4 213 927	5 495	13 227	34 696	125 938	209 645	336 397	548 419	518 446	481 850	1 939 810
1977											
All employees** Total construction receipts Value added††	311 588 27 137 768 7 112 256	1 514 15 200 3 695	1 938 35 903 11 295	4 838 128 260 43 837	16 175 595 501 194 643	21 461 1 034 190 325 401	32 670 1 970 799 590 361	58 911 4 342 976 1 293 555		1126 629 114 816 080 13 438 757	(NA) (NA) (NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	(W) (W)	6 7 32	5 5 21	6 5 12	3 3 9	3 3 8	2 2 6	1 2 4	888	(%) (%) (%)	(%) (%) (%)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Data for this size class include establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.

Table 7. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		Construct	ion receipts					
		New co			mate (p	dard er ercent)		
Type of construction	Total	Total	Additions and alterations ¹	Maintenance and repair		colur	nn	
	А	В	С	D	Α	В	С	D
1982								
Total construction receipts‡		50 122 529	12 060 126	2 182 024	(W)	(W)	(W)	1
Building construction Single-family houses, detached Single-family houses, attached Apartment buildings with two or more apartments Other residential buildings Office and bank buildings Bank buildings and other financial institutions Farm buildings Industrial buildings and warehouses Industrial buildings. Stores, restaurants, public garages, and automobile service stations Religious buildings Hospitals and institutional buildings Hospitals and institutional buildings Amusement, social, and recreational buildings Other nonresidential buildings Construction work, n.s.k.	1 018 725 658 023 360 702 1 212 104 1 293 244 19 043 904 16 847 300 2 196 604 974 407 4 295 640 3 006 710 1 288 930 6 944 201 942 320 4 150 442	46 768 591 928 285 579 680 348 604 1 163 857 1 257 044 18 429 466 16 326 234 2 103 231 4 074 192 2 821 882 1 252 309 6 559 700 85 080 4 002 421 6 525 247 1 055 653 974 229 921 216 2 432 722	11 239 010 284 814 223 396 61 417 172 683 244 589 3 597 577 2 866 133 731 443 128 374 951 354 747 780 203 574 1 733 246 247 420 1 198 770 2 154 886 247 766 156 259	1 934 892 90 440 78 343 12 097 48 247 36 200 614 438 521 065 93 372 70 995 221 448 184 828 36 620 384 501 47 239 148 020 148 021 46 464 78 873 96 786	8 1 2 2 1 2 8 8 1 1 2 1 1 1 1 1 1 1 1 1 1 	(W) 1 2 2 1 (S) S 2 1 2 1 2 1 (S) 1 1 2 1 (S) 1 1 (W) 1	(W) 2252111113111311123 1	123652111341222272246 2 2
1977								
Total construction receipts‡	27 137 768	24 346 193	(NA)	2 791 575	(W)	(W)	(NA)	1
Building construction Single-family houses Apartment buildings with two or more apartments Other residential buildings Office and bank buildings Farm buildings	505 488 529 775 438 894 5 325 617	22 508 304 375 043 464 690 396 762 4 622 741 790 849	(NA) (NA) (NA) (NA) (NA) (NA)	2 704 352 130 445 65 085 42 132 702 876 62 590	(W) 2 1 1 (W) 2	(W) 2 1 (W) 2	A AAAAA NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	1 2 3 3 1 8
Industrial buildings and warehouses	2 769 902 4 065 583 866 318 4 154 952 4 386 205 692 407 624 078	2 515 022 3 664 313 783 447 3 859 084 3 982 930 637 723 415 700	(NA) (NA) (NA) (NA) (NA) (NA) (NA)	254 880 401 270 82 871 295 868 403 275 54 684 208 378	(W) 1 2 (W) (W) 1 2	(W) 1 2 (W) (W) 1 2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1 3 3 1 1 7 2
Nonbuilding construction	1 248 045	1 192 574	(NA)	55 471	(W)	(W)	(NA)	3
Construction work, n.s.k.	677 221	645 102	(NA)	32 119	1	1	(NA)	4

¹For 1977, separate data were not collected. These data are included with "New Construction."

Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1982

[Thousand dollars. Detail may not add to total due to rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or total receipts for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of construction receipts by type of construction was not provided in table 7. For explanation of terms, see appendixes!

				Total constru	ction receipts			Payments for		Relativ	
Item	Number of establishments	All employees**	Payroli, ali employees	For all types	For specialized type	Net construction receipts†	Value added††	construction work sub- contracted to others	of (pe	dard e estima rcent) olumn	ate for
	А	В	С	D	E	F	G	Н	В	D	Н
All establishments	22 112	359 856	7 260 046	52 304 554	26 043 251	21 546 587	12 512 366	30 757 966	(W)	(W)	(W)
Establishments not specializing by type Establishments specializing 51 percent or more	5 594 16 517	138 388 221 468	2 858 559 4 401 487	19 827 848 32 476 705	(NA) 26 043 251	8 515 412 13 031 175	5 002 677 7 509 689	11 312 436 19 445 530	1 (W)	(W)	(W) (W)
BANK BUILDINGS AND OTHER FINANCIAL INSTITUTIONS											
All establishments specializing in type	480	6 504	146 265	955 310	795 258	412 988	2 68 5 97	542 321	3	1	2
Establishments with— 100 percent specialization— 90 to 99 percent specialization— 80 to 89 percent specialization————————————————————————————————————	109 65	2 134 1 029	5 2 027 19 832	359 503 102 135	359 503 94 908	135 812 60 043	89 636 43 698	223 691 42 092	3 9	2	2 6
80 to 89 percent specialization 70 to 79 percent specialization 60 to 69 percent specialization 51 to 59 percent specialization	74 85 97 49	947 834 1 089 470	18 815 16 638 29 678 9 274	116 958 102 445 223 189 51 078	96 229 75 705 140 742 28 170	42 239 49 120 102 668 23 106	30 072 31 310 60 919 12 959	74 719 53 325 120 521 27 972	9 6 13	3 5 3 9	4 4

Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1982-Con.

[Thousand dollars. Detail may not add to total due to rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or total receipts for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of construction receipts by type of construction was not provided in table 7. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

construction receipts by type of construction was not provided i	n table 7. Fo	r meaning of at	obreviations ar			text. For expla	anation of tern	ns, see appendi	xes]		
	Number of			Total constru	ction receipts	Net		Payments for construction work sub-	star	Relativ ndard e estima	error
item	establish- ments	All employees**	Payroll, all employees	For all types	specialized type	construction receipts†	Value added††	contracted to others	(pe	ercent) olumn	for
	А	В	С	D	E	F	G	Н	В	D	Н
FARM BUILDINGS											
All establishments specializing in type	1 807	14 447	190 126	953 224	847 201	845 184	380 054	108 040	2	2	4
Establishments with— 100 percent specialization	1 012	7 220	87 496	444 053	444 053	392 564	192 278	51 489	4	5	9
90 to 99 percent specialization 80 to 89 percent specialization	285 128	2 787 1 440	39 950 19 420	193 552 92 229 77 730	180 367 77 544	186 892 88 161	75 068 37 828	6 660 4 068	10 6	5 5 8 6	14 35
70 to 79 percent specialization 60 to 69 percent specialization 51 to 59 percent specialization	128 163 90	1 195 1 376 429	17 386 19 722 6 151	93 949 51 710	56 130 60 652 28 453	70 891 75 119 31 557	28 039 32 675 14 165	6 839 18 830 20 153	6 7 10	6 5 6	35 21 3 4
OFFICE BUILDINGS											
All establishments specializing in type	3 391	77 872	1 789 078	14 987 418	11 732 200	4 880 600	2 748 009	10 106 817	1	(W)	(W)
Establishments with— 100 percent specialization	1 325	16 004	350 890	2 515 810	2 515 810	855 680	423 675	1 660 130	2	1	1
100 percent specialization 90 to 99 percent specialization 80 to 89 percent specialization 90 pe	375 419	11 451 11 437	291 784 256 018	2 729 602 2 423 776	2 564 160 2 018 443	745 779 613 583	327 752 297 362	1 983 823 1 810 193	2 2 2 2	1	(W)
70 to 79 percent specialization60 to 69 percent specialization	462 531	10 097 15 808	219 422 372 064	1 989 019 3 006 319	1 466 209 1 897 402	714 157 1 194 155	466 746 794 513	1 274 862 1 812 163	2	w	1
51 to 59 percent specialization	278	13 073	298 899	2 322 891	1 270 175	1 194 155 757 245	437 960	1 565 646	1	(W)	(W) (W)
STORES, RESTAURANTS, PUBLIC GARAGES, AND AUTOMOBILE SERVICE STATIONS											
All establishments specializing in type	4 147	43 484	757 765	5 156 576	4 244 278	2 510 978	1 553 591	2 645 598	1	1	1
Establishments with— 100 percent specialization	2 068	16 417	271 968	1 800 960	1 800 960	918 902	583 878	882 058	2 5	2	2
90 to 99 percent specialization 80 to 89 percent specialization	407 437	4 950 4 753	92 346 83 531	615 045 567 010	577 718 471 940	285 552 274 829	208 040 172 350	329 493 292 181	4	2	2
70 to 79 percent specialization	482 459	5 401 6 455	100 533 118 662	694 412 877 397	510 207 557 372	323 951 417 713	175 926 258 292	370 461 459 684	3 3	232222	23 2 2 2 2 2
51 to 59 percent specialization	292	5 506	90 723	601 75 1	326 078	290 031	155 102	311 720	3	2	2
RELIGIOUS BUILDINGS											
All establishments specializing in type	433	3 864	5 6 4 68	331 429	257 943	189 843	111 346	141 586	6	5	5
Establishments with— 100 percent specialization	126	756	8 846	53 372	53 372	30 882	20 065	22 490	13	16	20
90 to 99 percent specialization 80 to 89 percent specialization	51 61	651 420	12 071 6 175	67 358 27 673	64 011 22 796	34 918 19 431	22 368 14 363	32 440 8 242	12 17	20	10 30
70 to 79 percent specialization60 to 69 percent specialization	63 88	810 728	10 265 11 521	71 057 71 003	51 741 44 012	37 244 42 706	17 639 23 948 12 962	33 812 28 297 16 304	17 14 17	11 11 17	30 9 7 19
51 to 59 percent specialization	43	498	7 590	40 965	22 009	24 661	12 902	16 304	''	''	19
All establishments specializing in type	1 132	19 782	372 896	2 498 750	1 840 000	1 117 536	6 5 8 5 21	1 381 214	2	1	1
Establishments with							100 100	405 000			
100 percent specialization 90 to 99 percent specialization	270 144	3 334 1 646	65 358 30 135	258 316 242 141	258 316 229 279	132 377 110 841	108 128 64 001	125 939 131 299	3 6 4 3 3 4	6	5
80 to 89 percent specialization	156 168	2 431 4 261	48 648 81 252	358 025 599 245	299 568 438 067	153 492 258 849	85 122 135 635	131 299 204 533 340 396	3	6 3 2 2 2	5 3 2 2
60 to 69 percent specialization 51 to 59 percent specialization	220 173	4 294 3 814	76 283 71 218	565 475 475 546	353 524 261 243	258 914 203 061	154 090 111 544	306 561 272 485	4	2	2
HOSPITALS AND INSTITUTIONAL BUILDINGS											
All establishments specializing in type	872	23 578	507 050	4 139 011	3 042 126	1 374 472	7 80 7 29	2 764 539	1	1	1
Establishments with— 100 percent specialization 90 to 99 percent specialization	240	3 067	61 359	412 174	412 174	170 223	116 127	241 950	5 4	2	3
80 to 89 percent specialization	105 97	3 781 2 078	56 585 50 381	514 648 385 945	483 621 317 646	154 886 154 964	104 474 89 381	359 762 230 980		2 2 1	1
80 to 89 percent specialization	138 181	4 930 6 810	109 722 155 239 73 763	838 354 1 311 615	618 206 837 889	154 886 154 964 272 782 408 510 213 105	142 310 210 491 117 944	565 572 903 104 463 170	4 2 2 2	1	1 (W)
AMUSEMENT, SOCIAL, AND RECREATIONAL	110	2 911	73 763	676 275	372 588	213 105	11/ 944	403 170	2	1	(vv)
BUILDINGS All establishments specializing in type	348	3 404	63 827	372 109	280 102	185 472	110 378	186 637	4	4	4
Establishments with—		3 404									
100 percent specialization	142 49	674 411	12 187 7 767	64 698 43 747	64 698 41 254	40 462 20 062	23 620 10 572	24 236 23 685	10 13	12 7	13 11
70 to 79 percent specialization	53 31	294 365	3 994 9 942	25 357 60 108	20 945 44 647	11 015 31 250	6 347 19 604 35 702	23 685 14 342 28 858 64 818 30 698	13 19 12 7 8	12 7 18 2 6 6	11 22 2 8 7
60 to 69 percent specialization51 to 59 percent specialization	49 24	1 133 527	18 634 11 303	123 901 54 298	80 081 28 476	59 083 23 600	35 702 14 531	64 818 30 698	8	6	8 7
		J	.,								_

Table 9. Quarterly Construction Worker Hours and Employment for Establishments With

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		Average		January	to March	April to	June
Location of establishment	Number of establishments	number of construction workers	Construction worker hours (thousands)	Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
	Α	В	С	D	E	F	G
United States	22 112	278 193	468 984	262 170	105 7 88	277 805	116 316
Alabama	294	6 580	11 333	6 420	2 618	6 582	2 885
	117	1 679	3 620	1 177	638	1 636	845
	331	3 344	4 729	3 652	1 240	3 497	1 243
	166	2 373	3 938	2 301	939	2 513	1 053
	2 547	24 658	47 801	24 568	9 403	24 183	9 624
Colorado	435	7 140	11 827	7 124	2 936	7 510	3 198
	306	4 120	7 614	3 724	1 676	4 159	1 953
	55	502	844	476	187	519	214
	37	1 369	2 064	1 285	433	1 473	538
	1 224	16 333	27 965	16 252	6 761	16 323	6 922
Georgia	537	8 546	13 427	8 615	3 229	8 659	3 415
	124	1 452	2 425	1 529	621	1 447	609
	129	938	1 362	845	306	893	346
	855	9 648	15 037	8 361	3 179	10 071	3 976
	517	5 125	8 396	4 143	1 650	4 970	2 082
lowa	435	3 733	6 306	2 899	1 212	3 581	1 524
Kansas	251	3 662	6 776	3 289	1 432	3 805	1 782
Kentucky	300	2 967	4 642	2 800	1 054	3 032	1 222
Louisiana	431	6 860	12 091	6 884	2 981	6 973	3 075
Maine	98	982	1 784	874	378	883	407
Maryland	385	5 954	10 007	5 340	2 259	6 086	2 491
	513	6 174	10 214	5 456	2 265	6 145	2 562
	652	4 758	8 298	4 135	1 906	4 843	2 142
	405	5 596	9 900	4 782	2 012	5 566	2 422
	184	1 832	2 808	1 792	634	1 802	722
Missouri	491	6 912	9 639	6 411	2 188	6 914	2 383
	137	1 049	1 286	835	258	1 025	313
	260	2 744	4 237	2 049	800	2 433	1 008
	145	1 003	1 388	1 182	426	919	337
	104	1 456	2 481	1 180	527	1 534	655
New Jersey	587	6 653	10 326	5 686	2 231	6 679	2 586
	242	3 160	5 225	2 837	1 216	3 118	1 299
	1 257	13 688	22 243	11 993	4 853	13 614	5 610
	430	6 439	11 368	6 362	2 682	6 631	2 944
	152	1 360	2 280	907	393	1 308	527
OhioOklahomaOklahomaOregonOregonOregonOregonOregonOregonOregonOregonOregonOregonOregonOregonOregonOregon	905	8 817	14 553	7 517	3 034	8 747	3 735
	387	5 783	9 623	5 681	2 245	5 772	2 468
	353	2 664	3 862	2 556	921	2 699	1 009
	817	9 968	16 719	8 706	3 612	9 744	4 133
	72	925	1 678	810	362	924	416
South Carolina South Dakota Tennessee Texas Utah	196	3 531	6 377	3 500	1 505	3 576	1 639
	146	969	1 562	779	312	893	362
	349	6 293	11 211	6 363	2 704	6 194	2 830
	1 724	35 451	59 809	37 243	15 066	35 424	15 299
	176	2 150	3 590	1 966	848	2 119	899
Vermont	67	393	710	324	159	360	166
	446	5 822	10 325	5 361	2 266	5 658	2 669
	618	7 020	10 840	6 650	2 548	6 734	2 644
	155	1 297	2 113	1 301	520	1 235	517
	463	5 068	8 365	4 180	1 748	5 133	2 095
	90	1 239	1 942	1 057	393	1 258	497

¹Sum of construction workers during pay periods including 12th of March, May, August, and November.

Payroll by State: 1982

July to Sep	ptember	October to	December.											
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)			Relative	standard e	rror of est	mate (perd	cent) for c	olumn—			Location of establish- ment
н	1	J	К	В	С	D	E	F	G	Н	1	J	К	, mont
294 283	133 289	269 370	113 589	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	U.S
6 988	3 094	6 239	2 734	2	1	2	2	2	2	2	2	2	2	Ala.
2 089	1 137	1 763	998	3	3	1	3	6	5	4	2	3	7	Alaska
3 292	1 202	2 787	1 042	3	3	3	4	3	3	3	4	3	4	Ariz.
2 458	1 060	2 131	884	4	4	5	5	4	4	4	4	7	6	Ark.
25 537	19 467	23 150	9 305	1	(W)	1	1	1	1	1	(W)	1	1	Calif.
7 277 4 327 512 1 383 16 840	3 037 2 079 226 544 7 338	6 482 4 165 483 1 321 15 364	2 654 1 905 214 547 6 942	1 2 13 (W) 1	1 2 14 (W) 1	1 2 12 (W) 1	1 2 15 1 1	1 2 13 (W)	1 2 15 1 1	2 2 13 (W) 2	1 2 15 1 1	1 2 14 (W) 1	2 2 17 1 1	Colo. Conn. Del. D.C. Fla.
8 761	3 581	7 909	3 200	1	2	1	2	1	2	1	2	2	2	Ga.
1 357	584	1 405	610	2	1	4	2	5	3	2	3	1	2	Hawaii
983	377	949	332	9	9	8	11	9	11	10	11	10	11	Idaho
10 820	4 194	8 964	3 687	1	1	1	1	2	2	2	2	1	2	III.
5 890	2 484	5 257	2 179	2	3	3	3	2	3	2	3	3	3	Ind.
4 310	1 857	3 969	1 712	4	3	3	4	4	4	4	4	5	5	lowa
3 751	1 817	3 689	1 743	2	2	2	3	2	2	3	2	2	2	Kans.
3 154	1 248	2 802	1 117	4	4	4	5	5	6	5	5	4	5	Ky.
6 946	3 194	6 449	2 840	2	2	2	2	2	2	2	2	2	2	La.
1 012	461	1 141	536	8	7	10	11	8	9	8	8	8	8	Maine
6 016	2 608	6 264	2 648	2	1	1	2	1	2	2	2	2	2	Md.
6 711	2 845	6 156	2 541	2	2	2	3	2	2	2	2	2	2	Mass.
5 106	2 230	4 665	2 019	2	2	2	2	2	2	3	3	4	3	Mich.
6 131	2 863	5 757	2 601	2	1	2	2	2	2	2	2	2	2	Minn.
1 895	777	1 705	674	6	6	6	6	8	8	7	8	5	6	Miss.
7 399	2 642	6 746	2 425	1	2	1	2	2	2	2	2	1	2	Mo.
1 264	414	1 023	299	12	8	11	12	14	11	12	10	12	10	Mont.
3 261	1 266	3 099	1 161	6	5	5	5	6	5	7	6	7	5	Nebr.
973	324	869	299	5	4	6	6	4	5	6	7	5	6	Nev.
1 742	726	1 303	572	5	5	5	6	5	5	5	6	5	6	N.H.
7 248	2 806	6 775	2 702	2	2	2	3	2	2	2	3	2	2	N.J.
3 512	1 450	3 046	1 259	3	3	3	4	3	4	3	4	3	4	N. Mex.
14 740	6 107	13 913	5 671	1	1	1	1	1	1	1	1	1	1	N.Y.
6 637	2 983	5 963	2 758	2	2	2	3	2	2	2	2	2	2	N.C.
1 792	749	1 376	609	6	5	7	8	10	8	8	7	5	6	N. Dak.
9 535	4 041	8 933	3 742	2	1	2	2	1	2	2	2	2	2	Ohio
6 028	2 570	5 488	2 339	3	2	3	3	3	2	3	3	3	3	Okla.
2 889	1 012	2 365	918	3	3	4	3	4	4	4	3	5	6	Oreg.
10 707	4 564	10 323	4 409	1	1	1	1	1	2	1	1	1	1	Pa.
973	460	957	437	6	5	5	6	6	6	6	6	7	6	R.I.
3 671 1 129 6 378 35 906 2 364	1 719 458 2 919 15 379 981	3 335 995 6 135 32 778 2 088	1 512 429 2 757 14 063 862	4 9 2 (W) 3	3 8 2 (W) 3	4 8 3 (W) 2	3 9 2 (W)	5 10 3 (W) 3	3 10 3 (W) 3	3 10 2 (W) 3	3 11 2 (W) 4	4 10 2 (W) 3	4 10 2 (W) 3	S.C. S. Dak. Tenn. Tex. Utah
462 6 264 7 564 1 373 5 541 1 371	199 2 770 2 950 556 2 370 543	418 5 832 6 885 1 246 5 263 1 220	185 2 619 2 697 519 2 151 507	12 2 1 6 2 5	12 2 1 6 2	15 2 1 8 2 4	16 2 1 7 2 5	12 2 2 7 2 6	15 2 2 7 2 6	12 3 2 7 2 5	15 3 1 7 2 5	12 3 2 7 2 6	15 3 2 8 3 7	Vt. Va. Wash. W. Va. Wis. Wyo.

Table 10. Construction Receipts for Establishments With Payroll by Location of Construction Work: 1982 and 1977

Location of construction work	Construction	establishmer	work done by its located in State	Construction establishment in this	work done by ts not located State	1977 construction	Percent change 1982/	error (pe	ve stan of estin rcent) f	nate or
	receipts for work done in this State	Number	Construction receipts	Number	Construction receipts	receipts for work done in this State	1977 (col A÷F)	Č.	5101111	
•	А	В	С	D	E	F	G	Α	С	E
United States	52 304 554	21 679	43 886 162	6 259	8 418 391	27 137 768	92.7	(W)	(W)	(W)
Alabama	702 635 561 857 778 692 349 202 6 861 618	285 117 322 153 2 535	577 670 358 099 647 643 224 857 6 372 146	101 47 67 97 132	124 964 203 758 131 049 124 344 489 472	463 145 230 191 452 132 259 147 2 784 479	51.7 144.1 72.2 34.8 146.4	2 1 2 3 (W)	2 2 2 4 (W)	2 2 1 1
Colorado Connecticut Delaware District of Columbia Florida	1 578 182 820 048 200 869 653 917 3 113 792	430 299 55 37 1 214	1 350 524 612 628 68 439 166 759 2 338 285	141 107 96 135 225	227 658 207 420 132 430 487 158 775 506	681 760 280 861 53 245 366 300 926 979	131.5 192.0 277.3 78.5 235.9	1 2 4 (W) 1	1 2 11 1 1	1 2 1 1 (W)
Georgia Hawaii Idaho Illinois Indiana	1 069 829 393 498 229 920 1 794 618 794 907	533 124 129 842 512	921 243 343 991 108 330 1 561 901 582 672	151 38 68 203 181	148 585 49 506 121 589 232 717 212 235	506 909 301 793 137 195 1 363 388 537 483	111.0 30.4 67.6 31.6 47.9	2 1 4 1 2	2 2 7 1 2	2 2 2 1 3
lowa	543 654 388 088 499 804 1 248 398 155 502	427 248 292 419 98	450 596 301 416 313 777 994 130 104 280	125 109 200 127 66	93 058 86 672 186 027 254 268 51 222	414 950 385 530 395 212 634 900 105 929	31.0 .7 26.5 96.6 46.8	3 3 1 6	3 3 3 2 9	2 3 2 1 9
Maryland	795 455 1 609 177 937 864 784 529 229 988	382 509 634 397 178	662 071 1 338 106 869 655 735 359 145 705	285 125 106 93 90	133 384 271 070 68 208 49 169 84 282	714 835 532 553 838 967 535 777 265 995	11.3 202.2 11.8 46.4 -13.5	2 1 2 1 4	2 1 2 1 5	2 1 2 3 2
Missouri Montana Nebraska Newada New Hampshire	929 138 141 721 331 194 452 187 167 331	472 136 254 138 88	792 569 95 360 280 107 262 997 118 893	158 71 89 6 7 70	136 568 46 360 51 086 189 190 48 438	567 440 126 040 244 276 146 334 113 179	63.7 12.4 35.6 209.0 47.8	2 6 4 1 4	2 9 5 1 5	2 5 5 2 1
New Jersey New Mexico New York North Carolina North Dakota	1 350 004 420 963 2 880 667 882 757 158 902	564 237 1 227 415 147	1 029 182 322 151 2 752 831 724 658 140 525	190 77 176 113 44	320 821 98 811 127 835 158 099 18 376	516 824 246 552 1 573 723 586 545 123 233	161.2 70.7 83.0 50.5 28.9	1 2 1 2 3	1 3 1 2 4	1 1 3 1
Ohio	1 471 351 973 739 562 065 1 778 586 144 528	883 385 343 800 68	1 342 500 791 315 462 852 1 596 296 126 711	176 159 84 204 43	128 850 182 423 99 212 182 290 17 817	1 195 813 439 425 257 933 1 156 729 92 865	23.0 121.6 117.9 53.8 55.6	1 1 3 1 4	1 2 3 1 4	3 1 1 1 3
South Carolina	521 856 114 473 852 285 7 169 596 366 287	188 132 347 1 689 173	318 248 91 814 706 472 6 624 219 340 797	161 39 187 247 31	203 607 22 659 145 812 545 376 25 490	328 296 111 031 542 447 2 121 606 194 433	59.0 3.1 57.1 237.9 88.4	2 7 2 (W) 2	3 8 2 (W) 2	1 1 2 (W)
Vermont Virginia Washington West Virginia Wisconsin Wyoming	70 977 1 044 944 1 305 381 251 925 604 922 260 708	62 441 601 155 459 89	33 231 756 935 1 169 946 120 639 543 078 191 532	43 233 103 169 92 112	37 746 288 009 135 435 131 286 61 843 69 175	39 768 714 714 662 732 203 687 531 461 131 249	78.5 46.2 97.0 23.7 13.8 98.6	9 2 1 3 2 3	16 2 1 5 2 3	12 2 2 2 1 8

Table 11. All Business Receipts for Establishments With Payroll by Kind of Business Activity: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. Based on their primary business activity or combination of activities, establishments were classified into this specific industry. These establishments, however, may also be engaged in other kinds of business activities. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Primary and other kinds of business activities	All busines	ss receipts	Relative standard error of estimate (percent)		
	1982	1977	1982	1977	
All kinds of business	52 824 851	27 400 418	(W)	(W)	
General building contractor	45 322 939 193 968 127 136	25 223 564 92 994 (NA)	(W) 2 2	(W) 4 (NA)	
Highway and street contractor	222 680 519 368	235 614 318 189	1	(W)	
Construction management	2 748 239 191 486 247 208	657 511 27 503 36 617	1 2 2	1 9	
Plumbing contractor	31 629 171 659	(NA) (NA)	7 3	(NA) (NA)	
Architectural and engineering services for others	55 444	32 713 31 629 55 798	1 1 5	4 6 3	
Sale of landOther activities	33 786 2 772 314	29 439 658 847	2 3	7 3	

Table 12. Profile of Establishments With Payroll in This Industry: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	1982	1977	1972	Relative standard error of estimate (percent) for 1982
AVERAGE PER ESTABLISHMENT				
Number of employees** Number of construction workers Number of all other employees Payroll, all employees Construction worker wages do Other employee salaries do	16.3 12.6 3.7 328.3 230.0 98.4	16.9 13.8 3.0 231.5 172.7 58.8	15.4 13.0 2.4 155.6 122.7 32.9	(W) (W) 1 (W) (W) (W)
All business receipts	2 389.0 2 365.4 432.1 1 391.0 21.5 190.6	1 483.8 1 469.5 323.1 775.5 17.7 110.5	936.7 927.2 190.5 492.9 8.7 57.7	(W) (W) (W) (W) 1
AVERAGE PER EMPLOYEE				
Payroll, all employees	20.2 146.8 34.8	13.7 87.9 22.8	10.1 60.8 16.5	(W) (W) (W)
AVERAGE PER CONSTRUCTION WORKER				
Construction worker wages do_ Total construction receipts do_ Construction worker hours thousand_	18.3 188.0 1.7	12.5 106.7 (NA)	9.5 71.5 (NA)	(W) (W) (W)
AVERAGE PER OTHER EMPLOYEE				
Other employee salaries \$1,000_	26.7	19.4	14.0	(W)
AVERAGE PER DOLLAR OF TOTAL CONSTRUCTION RECEIPTS				
Payroll, all employees	.139 .183 .588 .009 .007	.158 .220 .528 .012 .007	.168 .205 .532 .009 (NA)	(W) (W) (W) 1 1

Table 13. Selected Industry Ratios for Establishments With Payroll by State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

					Average per dollar of total construction receipts				
Location of establishment	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per construction worker (\$1,000)	Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
United States	16.3	20.2	1.7	188.0	.139	.183	.588	.009	.007
Alabama	27.9 18.1 13.9 16.8 13.2	15.6 26.2 19.1 14.4 25.8	1.7 2.2 1.4 1.7 1.9	141.3 213.3 241.6 138.0 274.2	.137 .155 .109 .122 .128	.249 .225 .139 .239 .134	.571 .483 .608 .437 .678	.006 .009 .010 .008 .007	.005 .011 .007 .006 .009
Colorado Connecticut Delaware District of Columbia Florida	21.7 17.0 12.3 45.7 16.9	21.5 21.4 18.3 21.6 16.5	1.7 1.8 1.7 1.5	237.2 169.2 196.7 202.5 153.2	.119 .160 .125 .132 .136	.179 .151 .158 (D) .205	.578 .584 .625 .663 .563	.006 .008 .010 .001 .007	.006 .009 .009 .008
Georgia Hawaii Idaho Illinois Indiana	20.5 16.6 9.8 14.9 12.9	15.8 25.6 18.3 23.9 19.6	1.6 1.7 1.5 1.6 1.6	151.5 240.0 206.9 193.7 138.3	.134 .151 .119 .163 .185	.225 .178 (D) .150 .219	.557 .569 .477 .580 .499	.005 .015 (D) .006 .009	.007 .012 .006 .006
lowa Kansas Kentucky Louisiana Maine	11.4 17.9 12.2 19.7 12.0	18.4 18.6 16.7 18.4 13.9	1.7 1.9 1.6 1.8 1.8	143.3 149.7 123.9 152.0 111.3	.171 .152 .166 .149 .151	.310 .270 .220 .222 .300	.424 .475 .490 .562 .426	.011 .013 .009 .010 .015	.005 .007 .007 .008
Maryland	21.0 16.4 9.9 17.5 12.5	20.4 22.7 21.9 23.3 12.6	1.7 1.7 1.7 1.8 1.5	214.8 250.4 225.1 194.1 103.9	.129 .123 .132 .152 .153	.149 .158 .138 .177 .305	.608 .633 .616 .509	.034 .006 .007 (D) .010	.005 .008 .005 .008
Missouri Montana Nebraska Newada New Hampshire	19.0 9.5 13.6 9.1 17.2	19.7 14.9 15.6 23.9 16.8	1.4 1.2 1.5 1.4 1.7	185.0 113.7 115.2 272.7 125.5	.144 .162 .174 .116 .164	.172 .282 .330 .126 .231	.608 .415 .387 .620 .525	.008 .016 .016 .006 .009	.004 .010 .009 .012 .008
New Jersey New Mexico New York North Carolina North Dakota	14.7 16.6 14.7 18.7 10.6	19.1 19.0 22.4 14.2 17.8	1.6 1.7 1.6 1.8 1.7	170.3 107.0 223.9 130.8 119.8	.146 .226 .135 .136 .177	.150 (D) .159 .243 .316	.601 .462 .587 .506 .417	.010 .023 .005 .008	.007 .006 .008 .006
Ohio	13.1 18.5 10.1 15.9 24.8	21.2 18.2 24.8 20.3 25.0	1.7 1.7 1.4 1.7 1.8	184.7 154.4 236.2 184.9 587.7	.154 .145 .141 .143 .082	.168 .191 .160 .151	.612 .532 .625 .587 .802	.008 .008 .005 .008	.006 .005 .011 .005 .011
South Carolina	22.0 7.9 22.5 25.3 15.1	14.5 14.1 17.3 19.7 19.8	1.8 1.6 1.8 1.7 1.7	105.9 108.2 186.4 196.8 208.7	.167 .155 .116 .124 .117	.248 .450 .200 .202 .209	.512 .294 .615 .620 .554	.010 .012 .007 .006 .007	.006 .006 .009 .008
Vermont Virginia	7.9 16.3 15.0 10.3 14.9 16.1	12.3 16.9 26.1 16.9 21.2 18.2	1.8 1.8 1.5 1.6 1.7	87.4 152.2 205.3 98.6 128.1 161.0	.188 .139 .168 .212 .225 .133	.254 .192 .212 .239 .239 .161	.368 .548 .552 .406 .458 .541	.012 .008 .007 .009 .011	.011 .006 .010 .010 .006

APPENDIX A. Explanation of Terms

Construction—Is composed of three broad categories: (1) new construction, (2) additions and alterations, and (3) maintenance and repair. "New construction" includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators and escalators. "Additions and alterations" includes construction activity making structural changes to existing facilities. "Maintenance and repair" includes the restoration of existing buildings or other structures or their service facilities, including the replacement of integral parts. Repainting, repapering, reroofing, etc., are also included.

Construction includes:

- special trade contracting such as electrical work, painting, and carpentering on mobile structures (trailers, mobile homes, and ships).
- support activities by construction contractors on mineral properties, except the following: sinking mine shafts; tunneling and shoring mines; erection, repairing and dismantling of drilling rigs; and building well foundations.
- the physical development of land for purposes other than agriculture.
- · demolition of existing structures.

Construction does not include:

- · shipbuilding.
- · manufacturing of other mobile structures.

Number of establishments in business during year—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Number of establishments in business at end of year—Includes all full-year or part-year establishments that were in business at the end of 1982.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners. The partnership factor was based on information received during a large-scale test conducted in prior years.

All employees — Comprised all full-time and part-time employees on the payrolls of construction establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid-sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are excluded.

Total employment is calculated for each establishment and is derived by summing the construction workers data reported for March, May, August, and November, dividing by 4 and adding to it the number of other employees reported for March.

This approach was designed to simplify the questionnaire format and the reporting requirements of respondents. The industry average of these four selected pay periods approximates very closely the average employment for the year that would be obtained by using pay periods in all 12 months for almost all of the construction industries.

Construction workers—Includes all workers up through the working supervisor level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, and on-site record keepers and security guards. Supervisory employees above the working supervisor level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working supervisor level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1982 and are published in the detailed statistics tables.

Payroll—Includes the gross earnings paid in the calendar year 1982 to all employees on the payroll of construction establishments. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick-leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Payroll data were collected and tabulated for the employment categories described above and separately for the first quarter of 1982

Payroll data for auxiliary establishments of multiestablishment companies are not included in these totals. Selected data for these types of establishments are found in the industry summary report and the 1982 Enterprise Statistics reports.

Employer costs for fringe benefits—Represents expenditures made by the employer during 1982 for legally required and voluntary fringe benefit programs for employees. These include employers' Social Security contributions, unemployment compensation, workers' compensation, State temporary disability payments, union negotiated benefits, life insurance premiums, pension plans, insurance premiums on hospital and medical plans, and welfare plans.

All business receipts — Includes all receipts from general contracting, special trade contracting or subcontracting, and land development and improvement work. It also includes all receipts from the sale of land (not recorded as fixed assets of the reporting establishments) and buildings built for sale. All other receipts from the reporting establishment's other business operations (rental of equipment to others, wholesale or retail sales, etc.) are also included.

Money obtained during the year in the form of construction loans is not treated as receipts, nor is money realized from the sale or other disposition of the establishment's fixed assets.

Also excluded are receipts from operations in foreign countries and nonoperating income such as interest and dividends.

All business receipts are broken down in the following detail:

Total construction receipts—Includes all receipts during 1982 for construction work performed by general contractors, special trades contractors or subcontractors, and for land development and improvement work. Included are receipts for maintenance and repair construction work, as well as for new construction and additions and alterations. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include in this item their 1982 receipts from the sale of buildings and other structures built for sale, excluding from these receipts the value of the land (see 'land receipts' below) but including the value of any improvements an establishment made to the land. Builders who traded a new home or other building for an existing one were to include the estimated value of the trade-in.

Also included in construction receipts were fees received as sponsors of joint ventures and fees received as agents for owners (for construction work).

Excluded were receipts for separately definable architectural and engineering work done by the reporting establishment for others and receipts from the rental of equipment to others (see "other business receipts" below).

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies for construction purposes were instructed to include as construction receipts both the receipts for the installation and the receipts for the value (selling price) of the items installed. (Receipts for the selling price of items sold but not installed were to be included in "other business receipts.")

Receipts for work subcontracted in from others—Covers receipts during 1982 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total construction receipts accounted for by such work, and the percentages reported were applied to the reported construction receipts to develop a value for this item.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in construction receipts.)

Other business receipts—Includes business receipts not reported as construction receipts or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Net construction receipts—Derived for each establishment by subtracting the payments made for construction work subcontracted to others from the total construction receipts. (For a further explanation, see "Duplication of Receipts" section in the Introduction.)

Value added – Derived for each establishment, value added is equal to all business receipts, less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, value added is modified to be equal to all business receipts less land receipts; payments for construction work subcontracted to others; and payments for materials, components, supplies, and fuels. (For a further explanation, see "Duplication of Receipts" section in the Introduction.)

Selected payments—Represents the total of payments for materials, components, and supplies; payments for construction work subcontracted to others; and payments for selected power, fuels, and lubricants. Capital expenditures and rental payments for machinery, equipment, and structures are shown elsewhere.

Payments for materials, components, and supplies include:

- total payments made by the reporting establishments during 1982 for the purchase of all materials, components, and supplies, except fuels, used for construction. (Supplies include expendable tools charged to current accounts.)
- freight and other direct charges incurred by the réporting establishment in acquiring the materials, components, and supplies are also included, as are the value of materials, components, and supplies obtained from other establishments of the respondent's company. Payments represent the amount paid after discounts.
- payments for materials, components, and supplies used by the reporting establishments in the construction of new plants or equipment for themselves, which are chargeable to their fixed assets accounts, are included in this item as are payments for materials bought and resold to others.
- payments made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Payments for materials, components, and supplies include only payments for physical goods and represent the amount paid after discounts.

Excluded from this item are:

- services such as advertising, telephone, telegraph and cable, insurance, developmental and research services of engineering, management, marketing, and other professional consultants, unless their costs are included in the prices paid for materials.
- overhead items such as depreciation charges against plant and equipment, rent and rental allowances, interest payments, royalties, patent fees, payments for land, rental of construction machinery or equipment, and construction work let out to other construction contractors.
- materials furnished to contractors by the owners of projects.

Payments for construction work subcontracted to others include:

- all payments made during 1982 for construction work subcontracted out to other construction contractors.
 General contractors were instructed to include payments to subcontractors. Builders were instructed to include payments made to general contractors and also payments made directly to subcontractors.
- special trade contractors were instructed to include payments made to other subcontractors. The payments made by the reporting establishment for its purchases of materials, components, and supplies are not included here, even if they were provided to a subcontractor for his use. Such purchases are reported under a separate category, "payments for materials, components, and supplies." However, if payments to subcontractors covered materials purchased directly by the subcontractors, then the total of such payments (including material charges) should have been reported in this item.

Excluded from this item are:

 payments made for the rental of construction machinery or equipment.

Payments for selected power, fuels, and lubricants include:

- payments made for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the parent company.
- payments made for natural and manufactured gas, fuel oil, coal and coke products, etc.

Dollar amounts include freight and other direct charges.

Storage capacity for fuels—Data for storage capacity for fuels were collected from heavy construction contractors, other than building construction contractors. Data are published in the detailed statistics tables for the heavy construction industries, i.e., SIC 1611, SIC 1622, SIC 1623, and SIC 1629.

Rental payments for machinery, equipment, and structures—Includes all payments made during 1982 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes payments for the rental of land. It also excludes payments made under agreements which, in effect, are conditional sales contracts and which, as a result, are capitalized. Such payments are included in "capital expenditures." It also excludes payments made under agreements which, in effect, are true subcontract construction arrangements; such payments are included in payments for "construction work subcontracted to others."

Selected purchased services — Includes all payments made during 1982 for communication services purchased from other companies or from other establishments of the parent company. It also includes the cost of all repairs made to structures and equipment by outside firms, or from other establishments of the parent companies. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increases the value of property, or the cost of adapting it for another use.

Fixed assets and depreciation—Refers to the value of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on fixed assets and depreciation were collected separately for: (1) structures, additions, and related facilities; (2) machinery and equipment; and (3) the total of both.

Respondents were asked to report the gross book valueacquisition cost (original cost or other basis) at the beginning and at the end of 1982. They were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1982.

Capital expenditures—Refers to all costs actually incurred during 1982 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment. Included are payments made under agreements which, in effect, are conditional sales contracts and which, as a result, are capitalized.

Respondents were instructed not to include any expenditures actually made prior to, or after 1982. For example, if they began construction of a building for an establishment's own use before 1982 and did not complete it until after 1982, they were to report only those costs actually incurred during 1982.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

- New structures and related facilities Includes the
 total expenditures during 1982 for new buildings and
 structures, major additions and alterations to
 buildings and structures, and other facilities for the
 reporting establishment's use (such as roads, docks,
 tracks, parking lots, and fences). It excludes expenditures for land.
- New machinery and equipment—Includes expenditures for new machinery and new equipment. This item also includes capitalized repairs and improvements to used machinery and equipment.
- New automobiles and trucks intended primarily for highway use—Includes expenditures for new automobiles and trucks and capitalized repairs and improvements to used automobiles and trucks.
- Used structures and related facilities—Covers expenditures for used structures and related facilities acquired from others.
- Used machinery and equipment—Includes expenditures for used machinery and equipment acquired from others, including automobiles and trucks.
 Capitalized repairs and improvements to such equipment are reported as new machinery and equipment.

Value of inventories—Includes all of the materials and supplies that are owned and located within the United States. Excludes materials which are owned by others, but held by the reporting establishment.

Inventories of multiestablishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Establishments building structures on their own land for sale (operative builders) were instructed to include the value of materials on hand at the end of the year but not to include the structures not yet sold or under construction.

Land subdividers and developers were instructed to include the value of materials on hand at the end of the year, but not include land not yet sold or under construction.

Ownership of construction projects—This item shows the distribution of construction receipts by ownership of the project—Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken and not to the financing. Government owned projects cover those owned by the Federal, Commonwealth, or local governments including public authorities and special districts.

Types of construction — This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1982. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. However, complex projects consisting of two or more types of buildings, structures, or other facilities are difficult to classify because sufficient information is seldom available. Therefore, respondents were told to classify complex projects by the major function of the total complex.

In addition, heavy construction contractors and special trade contractors were requested to report the percentage of construction receipts derived from new construction work, including additions and alterations, and from maintenance and repair work for each of these types. General building contractors were requested to report the percentage of construction receipts derived from new construction work, from additions and alterations, and from maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of new construction, additions and alterations, and maintenance and repair.

Building construction:

- Single-family houses, detached—Includes all residential buildings constructed for one family use.
- Single-family houses, attached (includes townhouses)—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken party or lot line wall from ground to roof.
- Apartment buildings with two or more apartments— Includes high-rise, low-rise, or any structures other than containing two or more housing units.
- Other residential buildings—Includes hotels, motels, dormitories, and other nonhousekeeping residential structures.
- Bank buildings and other financial institutions— Includes all buildings which are used primarily to house banks or other financial institutions.
- Warehouses—Includes commercial warehouses, cold storage plants, grain elevators, miniwarehouses, and other storage buildings.
- Farm buildings, nonresidential—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- Industrial buildings—Includes all industrial buildings and plants which are used to house production and assembly activities. Note that heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are NOT included in this category, but are shown under nonbuilding construction.
- Office buildings—Includes all buildings which are used primarily for office space or for government administrative offices.
- Other commercial buildings such as stores, restaurants, and automobile service stations— Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, complete shopping centers, department stores, drug stores, restaurants, public garages, and auto service stations.
- Religious buildings—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.

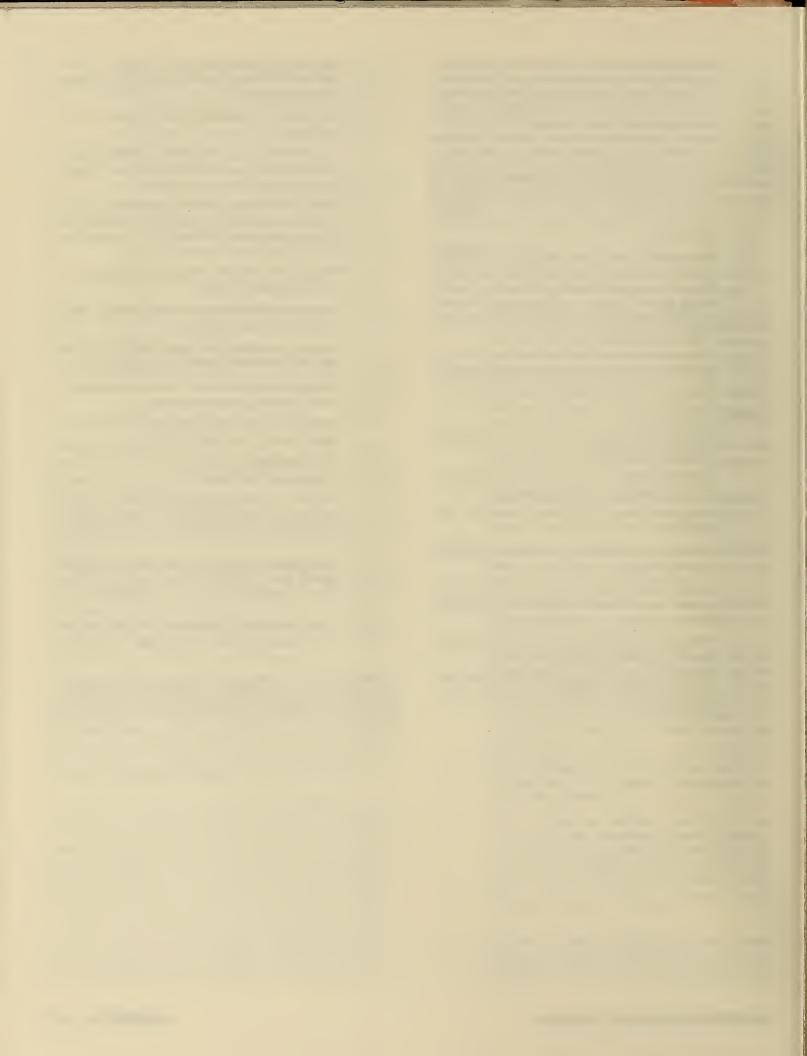
- Educational buildings Includes all buildings which
 are used directly in administrative and instructional
 activities, such as colleges, universities, elementary
 and secondary schools, correspondence, commercial, and trade schools. Libraries, museums and art
 galleries, as well as laboratories which are not a part
 of a manufacturing establishment, are also included.
- Hospitals and institutional buildings—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- Amusement, social, and recreational buildings— Includes buildings which are used primarily for entertainment, social, and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- Other nonresidential buildings—Includes buildings which are not classified elsewhere, such as fire stations, bus and air passenger terminals, hangars, etc.

Nonbuilding construction:

- Outdoor swimming pools—Includes wading pools and reflecting pools.
- Elevated highways—Includes roads, highways, and causeways built on structural supports.
- Bridges—Includes viaducts, trestles, and overpasses.
- Tunnels—Includes highway, pedestrian, and railway tunnels, etc.
- Railroad construction—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- Subway construction—Includes urban mass transit subway systems above or below ground.
- Dam and reservoir construction—Includes hydroelectric, water supply, and flood control dams and reservoirs.

- Marine construction—Includes dredging, underwater rock removal, breakwaters, navigational channels, ietties, and locks.
- Harbor and port facilities Includes docks, piers, and wharves.
- Conservation and development construction— Includes land reclamation, irrigation projects, drainage canals, dikes, and levees.
- Power and communication transmission lines, towers, and related facilities—Includes telephone and telegraph lines, television and radio towers, electric light and power facilities.
- Power plants, except nuclear—Includes electric and steam generating plants.
- Power plants, nuclear—Includes atomic energy plants and nuclear reactors.
- Sewers, sewerlines, and related facilities—Includes sanitary and storm sewers and related facilities.
- Sewage treatment plants—Includes sewage treatment and waste disposal plants.
- Water mains and related facilities—Includes water supply systems and related facilities.
- Water treatment plants—Includes water filtration .
 and water softening plants.
- Pipeline construction other than sewer or waterlines—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- Blast furnaces, petroleum refineries, chemical complexes, etc.—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- Other nonbuilding construction—Includes all types of nonbuilding construction, not included elsewhere.

Location of construction work—This item includes data for each State in which respondents engaged in construction work and the extent (percent of construction receipts) of that work.



APPENDIX B. Standard Industrial Classification Titles for Industry Groups and Industries

SIC	Industry titles	SIC	Industry titles
code		code	industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	173 1731	Electrical Work Special Trade Contractors Electrical Work Special Trade Contractors
1521 1522	General Contractors—Single-Family Houses General Contractors—Residential Buildings, Other Than Single-Family Houses	174	Masonry, Stonework, Tile Setting, and Plastering Special Trade Contractors
153	Operative Builders	1741	Masonry, Stone Setting, and Other Stonework Special Trade Contractors
1531 154	Operative Builders General Building Contractors—Nonresidential	1742	Plastering, Drywall, Acoustical and Insulation Work Special Trade Contractors
1541	Buildings General Contractors—Industrial Buildings and	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1542	Warehouses General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	175 1751	Carpentering and Flooring Special Trade Contractors Carpentering Special Trade Contractors
16	CONSTRUCTION OTHER THAN BUILDING	1752	Floor Laying and Other Floorwork Special Trade Contractors, N.E.C.
404	CONTRUCTION—GENERAL CONTRACTORS	176	Roofing and Sheet Metal Work Special Trade Contractors
1 61	Highway and Street Construction, Except Elevated Highways Highway and Street Construction Contractors	1761	Roofing and Sheet Metal Work Special Trade Contractors
162	Heavy Construction, Except Highway and Street	177	Concrete Work Special Trade Contractors
1622	Construction Bridge, Tunnel, and Elevated Highway Construc-	1771	Concrete Work Special Trade Contractors
1623	tion Contractors Water, Sewer, Pipe Line, Communication and	178 1781	Water Well Drilling Special Trade Contractors Water Well Drilling Special Trade Contractors
1629	Power Line Construction Contractors Heavy Construction Contractors, N.E.C.	179	Miscellaneous Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE	1791 1793	Structural Steel Erection Special Trade Contractors Glass and Glazing Work Special Trade Contractors
	CONTRACTORS	1794	Excavating and Foundation Work Special Trade Contractors
171	Plumbing, Heating (Except Electric), and Air Conditioning Special Trade Contractors	1795	Wrecking and Demolition Work Special Trade Contractors
1711	Plumbing, Heating (Except Electric), and Air Conditioning Special Trade Contractors	1796	Installation or Erection of Building Equipment Special Trade Contractors, N.E.C.
172	Painting, Paper Hanging, and Decorating Special Trade Contractors	1799	Special Trade Contractors, N.E.C.
1721	Painting, Paper Hanging, and Decorating Special Trade Contractors	6552	SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES
	Karana and a superior of the s		



APPENDIX C. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island

Vermont

MIDDLE ATLANTIC STATES

New Jersey New York Pennsylvania

EAST NORTH CENTRAL STATES

Illinois Indiana Michigan Ohio Wisconsin

WEST NORTH CENTRAL STATES

Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota

SOUTH ATLANTIC STATES

Delaware District of Columbia Florida Georgia Maryland

SOUTH ATLANTIC STATES-Con.

North Carolina South Carolina Virginia West Virginia

EAST SOUTH CENTRAL STATES

Alabama Kentucky Mississippi Tennessee

WEST SOUTH CENTRAL STATES

Arkansas Louisiana Oklahoma Texas

MOUNTAIN STATES

Arizona Colorado Idaho Montana Nevada New Mexico Utah Wyoming

PACIFIC STATES

Alaska California Hawaii Oregon Washington



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☐ Construction Industries	Minority- and Women- Owned Businesses	Housing			
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Publications of the 1982 Census of Construction Industries, containing data on construction establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

Preliminary Reports

Preliminary data from the 1982 census have been issued in 27 industry reports and 1 summary report. These reports are superseded by more detailed final reports.

Final Reports

Final detailed statistics are issued in separate paperbound reports.

Industry series - 28 reports (CC82-I-1 to -28)

Industry series—27 reports (CC82-I-1 to -27). These reports present data for establishments with payroll and are published for each of the 27 industries included in the census. Each industry report presents 1982 data by State and for the United States on number of construction establishments; receipts; employment; hours worked; payrolls; payments to subcontractors; payments for materials, components, and supplies; payments for power and fuels; payments for selected purchased services; payments for the rental of machinery, equipment, and structures; value added; capital expenditures during the year; and depreciable assets. Limited data for 1977, 1972, and 1967 are also shown. In addition, more detailed data are shown at the U.S. level on construction receipts by type of structure (single-family houses, streets, roads, etc.). Selected data also are provided for establishments classified by their employment size and receipts size.

U.S. Summary — 1 report (CC82-I-28). This report summarizes the data for establishments with payroll presented in the 27 individual industry reports and presents limited data for establishments with no payroll.

Geographic area series - 10 reports (CC82-A-1 to -10)

Division reports (CC82-A-1 to -9). These reports are published for States grouped according to the nine census geographic divisions. Much of the geographic area series data are the same as presented in the

industry series, except here they are organized by State rather than by industry. Similar data also are presented for selected SMSA's. Data are provided for establishments classified by their employment size and receipts size. Data for establishments with no payroll as well as comparative 1977, 1972, and 1967 figures, on a limited basis, also are shown.

U.S. Summary by State (CC82-A-10). This report summarizes the data, as presented in the nine individual geographic division reports, for establishments with and without payroll.

Special series-1 report (CC82-SP-1)

Legal form of organization and type of operation (CC82-SP-1) — This report presents limited data (number of establishments, number of proprietors and working partners, total employment, and total receipts) for construction establishments without payroll, for construction establishments with payroll, and for the aggregate, classified by industry and by legal form of organization. It also contains selected statistics (number of establishments, employment, payrolls, receipts, payments to subcontractors, net construction receipts, and value added) for construction establishments with payroll, classified by industry and by type of operation (multiunit or single-unit) and by legal form of organization.

Final Report Volume

Final paperbound reports subsequently are assembled and reissued in one clothbound volume.

Microfiche

All published data also are available on microfiche.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, manufactures, enterprise statistics, minority-owned businesses, women-owned businesses, and transportation also are issued as part of the 1982 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. All published reports and microfiche are sold by the Superintendent of Documents, U.S. Government Printing Office. Appropriate announcements and order forms describing these products are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

General Contractors Nonresidential Buildings, Other Than Industrial Buildings and Warehouses

CC32-I-5

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